

Welcome!!!

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- * Pick up:
- worksheet
 - slip for later

Test Wednesday!!!



Opening activity:

Have a look at the cards at your table -- which are examples of good conductors, bad conductors, and convection?

GOOD COND.

COPPER
KETTLES

BAD COND.

STYROFOAM
CUP
WOOD HANDLE

CONVECTION

LOWER FLOORS
COOLER THAN TOP
WIND CURRENTS

Centering

Sep 7-7:04 AM

ConDuction:

Transfer from particle to particle or through contact

Insulator = Bad Conductor



ConVection: "Heat rises"

Transfer by movement of heated substance (fluids)

Flow

Radiation: Heat transfer through light waves

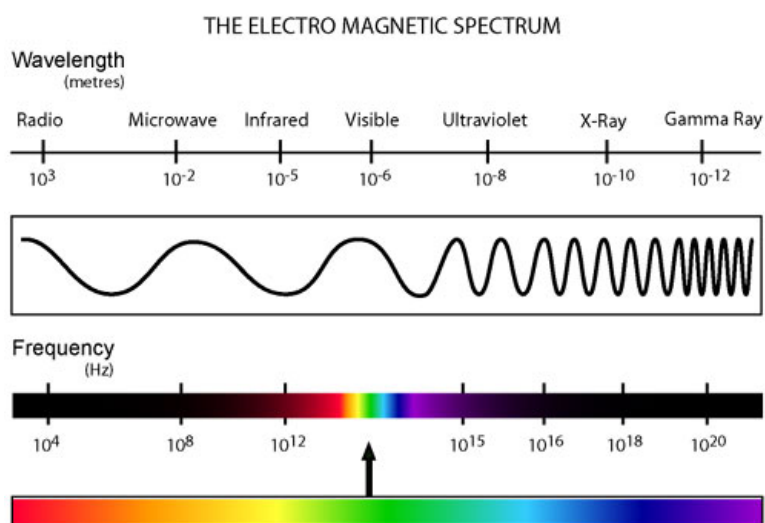
How does the sun warm the earth?

Not touching the earth, so not conduction
No fluids in space (no air!), so not convection
Radiation -- light waves can transfer heat even through empty space.



Jan 14-7:08 AM

Kinds of light = radiation



Jan 18-7:09 AM

Catching rain in a bucket...

4
8

Easier to catch rain when the bucket
is directly facing the clouds:
more rain for the same sized
opening!

Jan 14-7:25 AM

Worksheet & Experiment:

STRAIGHT

ANGLE

CHANGERAIN BUCKET: STRAIGHT / FLAT 8 LINES
TILTED 4 LINES

AT ANGLE DOESN'T CATCH AS MUCH RAIN

Demo of the seasons:

SUMMER

WINTER



Jan 14-7:30 AM

Daily 3 Questions

- * Every day except test/project days
- * 3 Questions on the topics of the day
- * Main source of daily points
- * I am happy to give credit when I have no concerns about someone giving or getting help with the answers.

You can't get your points if you don't have your **NAME!!!**

Name

Period

1.

2.

3.

Sep 9-7:32 AM

1. Which form of heat transfer is about light waves?

- A. ConDUction
- B. ConVEction
- C. Radiation

2. True or False: "Heat rises" applies to heat transfer by *conVEction*, but not by *conDUction*.

3. When we ~~shined the light~~ ^{HELD BUCKET} at an angle, we saw that the ~~temperature~~ ^{# LINES}

- A. went up more than when shined directly
- B. went up the same as when shined directly
- C. went up less than when shined directly

Jan 3-7:48 AM